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DATE MAILED: 11/21/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/505,297	08/20/2004	David Eric Appleford	1064.23	3792
21176	7590 11/21/2006		EXAM	INER
SUMMA, ALLAN & ADDITON, P.A.			DWIVEDI, V	IKANSHA S
11610 NORT SUITE 200	H COMMUNITY HOUS	SE ROAD	ART UNIT	PAPER NUMBER
CHARLOTT	E, NC 28277		3746	

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)			
	10/505,297	APPLEFORD ET AL.			
Office Action Summary	Examiner	Art Unit			
	Vikansha S. Dwivedi	3746			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MON tatute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 8	Responsive to communication(s) filed on 8/20/2004 thru 5/25/2006.				
2a) This action is FINAL . 2b) ⊠	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice und	ler <i>Ex parte Quayle</i> , 1935 C.D	D. 11, 453 O.G. 213.			
Disposition of Claims					
4) ⊠ Claim(s) <u>1-16</u> is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-16</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction are	drawn from consideration.				
Application Papers					
9) The specification is objected to by the Exam 10) The drawing(s) filed on 20 August 2004 is/a Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) The oath or declaration is objected to by the	are: a) \square accepted or b) \boxtimes olemates of the drawing(s) be held in abeya rection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received nents have been received in A priority documents have beer reau (PCT Rule 17.2(a)).	Application No n received in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 8/20/2004.	Paper No.	Summary (PTO-413) (s)/Mail Date Informal Patent Application			

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DETAILED ACTION

Information Disclosure Statement

Applicant Information Disclosure Statement submitted on 8/20/2004 does not comply with 37CFR 1.97 and 1.98 the Japanese references listed therein has not been considered. Applicant has not provided translation for the foreign reference listed therein. An initialed and dated copy of Applicant's IDS form 1449, Paper No. is attached to the instant Office action.

Drawings

Figures 1, 2 and 3 should be designated by a legend such as --Prior Art--because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: For example reference numerals 140 and 154 shown in Figure 3 are not discussed in the specification presented by the applicant. 140 and 154 are just examples of the reference numerals that are not described in the specification, applicant is advised to review the drawings and make sure there is proper description for the

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reference numerals shown in the drawings. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "12" has been used to designate both housing and compressor (Specification, Page 1, lines 15-16). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because rawings do not include illustrations which facilitate understanding of the invention, for example it will be helpful if 174 is labeled as drying means on the drawing. Applicant is suggested to review the drawings. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 12-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Canadian Pub-No. CA 2,312,085 to Dessibourg et al.

A gas seal system assembly, comprising: a housing 6; an electric motor 2 accommodated within a first portion, portion surrounding motor 2 as shown in the Figures, of the housing; rotating machinery 3 accommodated within a second portion, portion surrounding turbocompressor as shown in the figures, of the housing and driven by said electric motor 2; separation means, gas seal 19, in the housing between said

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first and second portions thereof for separating fluid acted upon by said rotating machinery 3 from said electric motor 2; gas introduction means 8 and 9 for introducing at least substantially dry motor protection gas into said first housing portion, portion surrounding motor 2, wherein said gas introduction means further comprises a restricted gas flow means, shown in Figure 2 near 2d and 7a, and for permitting a leakage of the motor protection gas from said first housing portion into said second housing portion; and a circulating apparatus figures 3 and 4 for diverting a portion of the fluid acted upon by said rotating machinery 3 to said first housing portion, said circulating apparatus including drying means 10 for reducing the moisture content of the acted upon gas diverted back to said first housing portion, said drying means having at least one outlet 9; wherein said gas introduction means includes external means 8 for supplying the at least substantially dry gas; wherein said means for supplying the at least substantially dry gas comprises a gas drying and supply unit 10 on a remote host facility linked to said first housing portion by an umbilical 8; wherein said drying means 10 separates the diverted portion of the acted upon gas into an at least substantially moisture-free first outlet flow 9 and said circulating apparatus includes first routing means for routing the first outlet flow 9 from a first one of said at least one outlet of said drying means to said first housing portion; wherein said second housing portion, portion surrounding 3, includes a compressor inlet for receiving gas at a first pressure and a compressor outlet for delivering gas at a second pressure higher than the first pressure, inlet and outlet for compressor 3 seen in figure 3 and 4, and said restricted gas flow means enables leakage of the motor protection gas into said second housing portion; including means

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for automatically maintaining the motor protection gas at a pressure above that of fluid in a part of said second housing portion adjacent said restricted gas flow means, 2d and 7a as in figure 2; wherein said rotating machinery is selected from the group consisting of compressors and centrifugal pumps, turbocompressor 3; wherein said gas flow means is adjacent said compressor inlet as seen in figure 1 the inlet for compressor 3 is adjacent to the to 2d and 7a.

Method claim 16 is rejected because the prior art apparatus as taught by Dessibourg and as discussed above, performs the present method steps as claimed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dessibourg.

Dessibourg discloses the claimed invention except for the secondary line for the drying means as claimed in claims 5-10. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide an extra second outlet flow that has a secondary outlet and inlet flow lines in order to provide a more efficient separation and cooling of the gas (page 14, paragraph 1), since such a modification would amount to a mere duplication of parts. It has been held that mere duplication of

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the essential working parts of a device involves only routine skill in the art. St. Regis

Paper Co. v. Bemis Co., 193 USPQ 8.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Canadian Pub-No. CA 2,312,085 to Dessibourg et al. in view of Du Pont 4,311,004.

Dessibourg discloses the claimed invention substantially as explained above.

Dessibourg does not disclose a valve as claimed in claim 11. Du Pont discloses several valves for example 86 as seen in figure 2. It would have been obvious to one of ordinary skill in the art at the time of the invention to place a valve in the flow path to allow little or no gas flow through line by selecting and/or adjusting the valve, col. 6 II. 35-41. It should be noted that Dessibourg discloses various types of valves and non-return valves are well known in the art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vikansha S. Dwivedi whose telephone number is 571-272-7834. The examiner can normally be reached on M-F, 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ehud Gartenberg can be reached on 571-272-4828. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

VSD

November 12, 2006

EHUD GARTENBERG SUPERVISORY PATENT EXAMINED